



59131.ST25

SEQUENCE LISTING

<110> Sato, Taki-Aki

<120> GENE ENCODING NADE, P75NTR- ASSOCIATED CELL
DEATH EXECUTOR AND USES THEREOF

<130> 0575/59131/JPW/APE

<140> 09/327,750

<141> 1999-06-07

<160> 45

<170> PatentIn version 3.0

<210> 1

<211> 36

<212> DNA

<213> MOUSE

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<210>	13
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<212>	PRT
<213>	HUMAN

Met 1	Ala	Asn	Ile	His 5	Gln	Glu	Asn	Glu	Glu 10	Met	Glu	Gln	Pro	Met 15	Gln
Asn	Gly	Glu	Glu 20	Asp	Arg	Pro	Leu	Gly 25	Gly	Gly	Glu	Gly	His 30	Gln	Pro
Ala	Gly	Asn 35	Arg	Arg	Gly	Gln	Ala 40	Arg	Arg	Leu	Ala	Pro 45	Asn	Phe	Arg
Trp	Ala 50	Ile	Pro	Asn	Arg	Gln 55	Ile	Asn	Asp	Gly	Met 60	Gly	Gly	Asp	Gly
Asp 65	Asp	Met	Glu	Ile	Phe 70	Met	Glu	Glu	Met	Arg 75	Glu	Ile	Arg	Arg	Lys 80
Leu	Arg	Glu	Leu	Gln 85	Leu	Arg	Asn	Cys	Leu 90	Arg	Ile	Leu	Met	Gly 95	Glu
Leu	Ser	Asn	His 100	His	Asp	His	His	Asp 105	Glu	Phe	Cys	Leu	Met 110	Pro	

<210>	14
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Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr
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Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
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<210> 16
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Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
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Leu Pro Val Leu Glu Asn Leu Thr Leu
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Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg
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Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp
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Leu Pro Leu Gly Lys Leu Thr Leu
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<210> 22

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<213> Rex HTLV-1

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Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser
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<213> human NADE

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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
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<210> 24

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<212> PRT

<213> MOUSE

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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
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Arg Ile Leu Met Gly Glu Leu Ser Asn His His
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<211> 27

<212> PRT

<213> HUMAN

<400> 26

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His
20 25

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 <213> CONSENSUS (MOUSE V. HUMAN)

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 ttatgccttg acttcggtca ttccccctg agatccatac tgtgactccc gctgtagccc 600
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 aaaatctcat catggcaaat attcaccagg aaaacgaaga gatggagcag cctatgcaga 360
 atggagagga agaccgccct ttgggaggag gtgaaggcca ccagcctgca ggaaatcgac 420

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ggggacaggc tcgccgactt gcccctaatt ttcgatgggc catacccaat aggcagatca 480
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Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp
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His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Arg
20      25      30
Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
35      40      45
Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
50      55      60
Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65      70      75
Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
85      90      95
Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
100     105     110
Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115     120     125

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<210> 31
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<212> PRT
<213> NANE 3a1

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Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn
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Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn
20      25      30
Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val

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35 40 45
 Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
 50 55 60
 Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
 65 70 75 80
 Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met
 85 90 95
 Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser
 100 105 110
 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
 115 120 125

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 <212> PRT
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 20 25 30
 Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly
 35 40 45
 Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp
 50 55 60
 Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu
 65 70 75 80
 Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu
 85 90 95
 Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro
 100 105 110
 Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
 115 120 125

<210> 33
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 <212> PRT
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Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp
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 20 25 30
 Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala

35 40 45
 Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His
 50 55 60
 Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met
 65 70 75 80
 Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met
 85 90 95
 Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
 100 105 110
 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
 115 120 125

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 Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
 20 25 30
 Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
 35 40 45
 Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
 50 55 60
 Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg
 65 70 75 80
 Phe Val Gly Gln Val Met Glu Ala Lys Arg His Ser Lys Glu Gln Gln
 85 90 95
 Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
 100 105 110
 Asp Phe Cys Leu Ile Pro
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 <212> PRT
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Met Ala Ser Lys Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys Asp
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 Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu Glu
 20 25 30
 Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn Val

35 40 45
 Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile Pro
 50 55 60
 Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg Phe
 65 70 75 80
 Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln Val
 85 90 95
 Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr Asp
 100 105 110
 Phe Cys Leu Ile Pro
 115

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Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
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 20 25 30
 Ala Gly Asn Arg Arg Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp
 35 40 45
 Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly Asp
 50 55 60
 Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu
 65 70 75 80
 Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu
 85 90 95
 Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
 100 105 110

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 <212> PRT
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 Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn Asn His Asn His
 20 25 30
 Asn His His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
 35 40 45
 Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Arg Asn Arg Gln

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<213> NADE 2
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<400> 39
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Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly
20 25 30
Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu
35 40 45
Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp

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<400> 42

<400> 43

<400> 44

<210> 45

<211> 10
<212> PRT
<213> PKI-alpha

<400> 45

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